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NOTICE OF ALLOWANCE AND FEE(S) DUE

27885 7590 02/17/2009

Fay Sharpe LLP 1228 Euclid Avenue, 5th Floor The Halle Building Cleveland, OH 44115 EXAMINER
MULLINS, BURTON S

PAPER NUMBER

ART UNIT

RAILED: 02/17/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/574/020 12/18/2006 Hirobi Tagawa TOMI 200011 8035

TILL GO FINNENTION: BRUSH-LESS: TYPE ROTATION DETECTOR SHIELDING STRUCTURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

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Fay Sharpe LL 1228 Euclid Ave The Halle Build	enue, 5th Floor ing	/2009	Lhe	Certify	ficate of Mailing or Tran		
Cleveland, OH 4	14113					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/574,020 TITLE OF INVENTION	12/18/2006 EBRUSH-LESS TYPE	ROTATION DETECTOR	Hiroshi Tagawa R SHIELDING STRUCTU	RE	TOMI 200011	8035	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DU	E DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0 \$1810		05/18/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MULLINS,	BURTON S	2834	310-168000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or typ data will appear on the p. T a substitute for filing an.	3 registered patent vely, e firm (having as a nigent) and the names meys or agents. If no printed,	nember a 2 of up to o name is 3	document has been filed for	
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Issue Fee Publication Fee (N	wo small entity discount p	permitted)	A check is enclosed. Payment by credit can	d. Form PTO-2038 i	is attached.	leficiency, or credit any an extra copy of this form).	
 Change in Entity Sta a. Applicant claim 	tus (from status indicated s SMALL ENTITY state		☐ b. Applicant is no long	ger claiming SMALL	ENTITY status. Sec 37 0	CFR 1.27(g)(2).	
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10/574,020	12	2/18/2006	Hiroshi Tagawa	TOMI 200011	8035
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Fay Sharpe LLP			MULLINS, BURTON S		
1228 Euclid Ave		oor		ART UNIT	PAPER NUMBER
The Halle Building Cleveland, OH 44115			2834 DATE MAIL ED: 02/17/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 153 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 153 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/574,020	TAGAWA, HIROSHI
Examiner	Art Unit
BURTON MULLINS	2834

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
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 This communication is responsive to amendment filed 08 January 2009. The allowed claim(s) is/are 6,8,9,12 and 17-22. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) X including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 1/09 4. T Examiner's Comment Regarding Requirement for Deposit Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other

Application/Control Number: 10/574,020 Page 2

Art Unit: 2834

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

The application has been amended as follows:

In claim 6, line 12, change "height" to -radial width-.

In claim 9, line 13, change "totor" to —rotor—. On line 15, change "height" to —radial width—.

In claim 22, line 2, change "sued" to -used-.

- The following changes to the drawings have been approved by the examiner: In Fig.5, add the label —PRIOR ART—. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.
- 3. The following is an examiner's statement of reasons for allowance: The prior art does not teach the claimed shielding structure for a brushless type rotation detector including, inter alia, characterized in that said shielding structure is a ring-shaped structure including said rotor magnetic shielding section and a securing section for mounting the structure to a surface of said rotor, said securing section is formed into a flange shape, and said rotor magnetic shielding section has the same radial width as said rotor transformer and the rotor iron core (claims 6 & 9)

or that the rotor magnetic shielding section has a radial width capable of also providing a shield between said stator transformer and the stator iron core (claim 12).

It is noted that JP 62-161573 provides a ring-shaped rotor magnetic shielding section 21 (Fig.1) with the same radial width as the rotor transformer 16 and rotor iron core 10; however, there is no "securing section...formed into a flange shape", nor does the rotor magnetic shielding section have "a radial width capable of also providing a shield between said stator transformer and the stator iron core."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Drawings

The drawings were received on 08 January 2009. It is noted that Fig.5 does not include
the label "PRIOR ART". This has been corrected by examiner's amendment.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 08 January 2009 has been considered by the examiner. Art Unit: 2834

assigned is 571-273-8300.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BURTON MULLINS whose telephone number is (571)272-2029. The examiner can normally be reached on 9-5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Q.Leung can be reached on (571)272-8188. The fax phone number for the organization where this application or proceeding is

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BURTON MULLINS/ Primary Examiner, Art Unit 2834

bsm 23 January 2009